

WHAT IS CLAIMED IS:

1. An imaging device for forming a parallax image string including a plurality of image data containing  
5 parallax information by capturing images of an object,  
comprising:

a controller for enabling to capture the images of  
said object while moving a viewing point of said imaging  
device on the basis of a time spatial parameter

10 indicative of time and/or spatial information that is  
supplied from outside and is necessary at the time of  
imaging, and to form said parallax image string.

2. The imaging device according to claim 1, further  
15 comprising:

a storage device for storing various time spatial  
parameters interconnected via a network, wherein

20 said controller reads out a first time spatial  
parameter required at the time of imaging from said  
various time spatial parameters stored in said storage  
device.

3. The imaging device according to claim 2, wherein  
25 said controller causes said parallax image string of  
captured images and said first time spatial parameter  
corresponding thereto to be supplied to said storage  
device and stored therein in association therebetween.

4. The imaging device according to claim 3, wherein  
30 said parallax image string and said time spatial  
parameter stored in said storage device under control of

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said controller are supplied to a holographic stereogram producing device for producing a holographic stereogram, and are used as a second time spatial parameter required for producing the holographic stereogram.

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5. The imaging device according to claim 1, wherein said controller reads out a first time spatial parameter required at the time of image capturing from various time spatial parameters recorded in a recording medium loaded in said imaging device.

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6. The imaging device according to claim 5, wherein said controller controls to record a parallax image string of captured images and the first time spatial parameter corresponding thereto on said recording medium.

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7. The imaging device according to claim 6, wherein said parallax image string and said first time spatial parameter corresponding thereto recorded on said recording medium by means of said controller are supplied to a holographic stereogram producing device for producing a holographic stereogram so as to be used as a second time spatial parameter which is required at the time of producing said holographic stereogram.

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8. The imaging device according to claim 1 wherein said time spatial parameter comprises pieces of information indicating imaging conditions.

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9. The imaging device according to claim 8 wherein said time spatial parameter comprises an imaging time, an

imaging angle, an imaging distance indicative of a positional relation between an image capturing point and the object, a translation motion distance and/or an imaging pitch.

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10. The imaging device according to claim 1 wherein said parallax image string comprises one of motion picture image data and a plurality of 2-dimensional still picture image data.

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11. A method of imaging of an object using an imaging device for forming a parallax image string including a plurality of image data containing parallax information, comprising the steps of:

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capturing images of said object while moving a viewing point of said image capturing device in a direction of translation motion on the basis of a time spatial parameter indicative of time and/or spatial information, said time spatial parameter being read in  
20 from outside as required at the time of image capturing; and

forming said parallax image string.

25 12. The method of imaging according to claim 11, wherein said imaging device is interconnected to a storage device for storing various time spatial parameters via a network, comprising the steps of:

30 reading a first time spatial parameter from said various time spatial parameters stored in said storage device, which becomes necessary at the time of image capturing; and